Claim 29, line 1, change "any one of Claims 24 to 28," to -- Claim 24, --.

Claim 30, line 1, change "any one of Claims 24 to 29," to -- Claim 24, --.

38.   (Amended) A system according to [any one of Claims 18 to 23] Claim 18,
wherein the device is [that defined according to any one of claims 35 to 37] an electronic
device for determining one or more targets in a sample, comprising:

an integrated circuit comprising the first group of N_1 conductors and a second
group of N_2 conductors, defining between them $N_1 x N_2$ junctions, each such junction being
formed with an electronic module comprising two electrodes, each one linked to or defined as
an integral portion of one of the conductors, and comprises a diode or non-linear component
permitting current flow through the electronic module only in the direction from the first
group of conductors to the second group of conductors, whereby a current flowing between
one conductor of the first group to one conductor of the second group of conductors defines a
single junction point between them; each pair of electrodes forming part of an array set, each
array set having a recognition moiety bound either to at least one of the electrodes or to a
non-conducting substance disposed between the electrodes.

39.   (Amended) A method according to [any one of Claims 24 to 30] Claim 24,
wherein said device is [a device according to any one of claims 35 to 37] an electronic device
for determining one or more targets in a sample, comprising:

an integrated circuit comprising the first group of N_1 conductors and a second
group of N_2 conductors, defining between them $N_1 x N_2$ junctions, each such junction being
formed with an electronic module comprising two electrodes, each one linked to or defined as
an integral portion of one of the conductors, and comprises a diode or non-linear component
permitting current flow through the electronic module only in the direction from the first
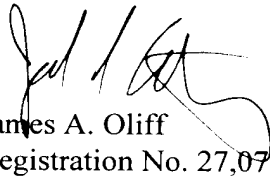group of conductors to the second group of conductors, whereby a current flowing between

-2-

one conductor of the first group to one conductor of the second group of conductors defines a single junction point between them; each pair of electrodes forming part of an array set, each array set having a recognition moiety bound either to at least one of the electrodes or to a non-conducting substance disposed between the electrodes.

Claim 42, line 1, change "any one of Claims 25 to 26" to -- Claim 24 --.

REMARKS

Claims 1-42 are pending. By this Preliminary Amendment, claims 4, 5, 12, 14, 16-18, 22, 29, 30, 38, 39 and 42 are amended to eliminate multiple dependent claims. Prompt and favorable examination on the merits is solicited.

Respectfully submitted,

James A. Oliff
Registration No. 27,075

Joel S. Armstrong
Registration No. 36,430

JAO:JSA/cmm

Date: October 26, 2000

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461